

WC1 / ATP7B Antibody (aa3-21, clone S62-29)
Mouse Monoclonal Antibody
Catalog # ALS16924**Specification**

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - Product Information

Application	IHC
Primary Accession	P35670
Other Accession	540
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	157263

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - Additional Information**Gene ID** 540**Other Names**

ATP7B, Copper-transporting ATPase 2, WC1, Wilson disease, PWD, WD, Copper pump 2, WND

Target/Specificity

Detects ~160kD in rat brain membrane preparations.

Reconstitution & Storage

PBS, pH 7.4, 0.09% sodium azide, 50% glycerol. Store at -20°C.

Precautions

WC1 / ATP7B Antibody (aa3-21, clone S62-29) is for research use only and not for use in diagnostic or therapeutic procedures.

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - Protein Information**Name** ATP7B**Synonyms** PWD, WC1, WND**Function**

Copper ion transmembrane transporter involved in the export of copper out of the cells. It is involved in copper homeostasis in the liver, where it ensures the efflux of copper from hepatocytes into the bile in response to copper overload.

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Late endosome Note=Predominantly found in the trans-Golgi network (TGN). Localized in the trans-Golgi network under low copper conditions, redistributes to cytoplasmic vesicles when cells are exposed to elevated copper levels, and then recycles back to the trans-Golgi network when copper is removed

(PubMed:10942420). [Isoform 2]: Cytoplasm

Tissue Location

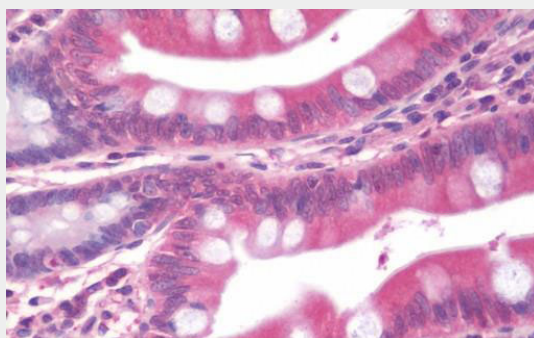
Most abundant in liver and kidney and also found in brain. Isoform 2 is expressed in brain but not in liver. The cleaved form WND/140 kDa is found in liver cell lines and other tissues

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - Images



Anti-WC1 / ATP7B antibody IHC staining of human small intestine.

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - Background

Involved in the export of copper out of the cells, such as the efflux of hepatic copper into the bile.

WC1 / ATP7B Antibody (aa3-21, clone S62-29) - References

- Petrukhin K., et al. Hum. Mol. Genet. 3:1647-1656(1994).
Carlini E.J., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Dunham A., et al. Nature 428:522-528(2004).
Oh W.J., et al. Biochem. Biophys. Res. Commun. 259:206-211(1999).
Bull P.C., et al. Nat. Genet. 5:327-337(1993).